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Producing micro glass balloons - used as lightweight filler for plastics,

floating material for ships, synthetic wood or artificial marble [Derwent Record]

ଟKind: A

**FInventor:** YAMADA KENJI;

HIRANO HACHIRO; SATO MASAKUNI;

**P**Assignee: **ASAHI GLASS CO LTD** 

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Published / Filed: 1997-05-13 / 1996-08-21

**②** Application

tion JP1996000220120

Number:

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Priority Number: 1995-08-28 JP1995000219068

PROBLEM TO BE SOLVED: To readily produce fine hollow glass

beads having a uniform particle size by subjecting formulated glass raw materials containing a foaming agent to wet milling to form a slurry of fine particles and heating them in the form of liquid drops

for vitrification.

SOLUTION: Glass raw materials such as silica sand, soda ash, borax, lime and the like and a foaming agent such as sodium sulfate are mixed to prepare a formulated glass raw materials. This formulated glass raw materials are wet-crushed to prepare of a slurry of a formulated glass raw materials of 3µm average particle size. The suitable crusher is made of alumina or zirconia at the liquid contacting with the liquid. Then, the slurry is atomized into liquid particle by spraying, ultrasonic atomization, or centrifugation, heating the liquid particles to effect vitrification and simultaneously produce fine hollow glass beads. The objective fine hollow glass beads have a particle size of 1-50µm, a real density of 0.1-

1.5g/cm3, a low specific gravity and is useful as a floatation material

for ships.

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**& Family:** None

References:

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PDF	Patent	Pub.Date	Inventor	Assignee	Title
			Tanaka;	Asahi Glass	Fine hollow glass sphere and

US6531222 2003-03-11 Masaharu

Company, Limited method for preparing the same

**P**Other Abstract Info:

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(71) Applicant: ASAHI GLASS CO LTD

(72) Inventor: YAMADA KENJI HIRANO HACHIRO SATO MASAKUNI

(74) Representative:

## (54) FINE HOLLOW GLASS BALL AND ITS PRODUCTION

(57) Abstract:

PROBLEM TO BE SOLVED: To readily produce fine hollow glass beads having a uniform particle size by subjecting formulated glass raw materials containing a foaming agent to wet milling to form a slurry of fine particles and heating them in the form of liquid drops for vitrification.

SOLUTION: Glass raw materials such as silica sand, soda ash, borax, lime and the like and a foaming agent such as sodium sulfate are mixed to prepare a formulated glass raw materials. This formulated glass raw materials are wet-crushed to prepare of a slurry of a formulated glass raw materials of 3ì m average particle size. The suitable crusher is made of alumina or zirconia at the liquid contacting with the liquid. Then, the slurry is atomized into liquid particle by spraying, ultrasonic atomization, or centrifugation, heating the liquid particles to effect vitrification and simultaneously

produce fine hollow glass beads. The objective fine hollow glass beads have a particle size of 1-50ì m, a real density of 0.1-1.5g/cm3, a low specific gravity and is useful as a floatation material for ships.

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